

IN THE CLAIMS

Pursuant to 37 CFR §121(c), the claim listing, including the text of the claims, will serve to replace all prior versions of the claims in the application. Amend claims 1 through 6, and add claims 7 through 18, as follows:

1 1. (Currently Amended) A helical implant formed with threads thereon, wherein
2 with each of the threads has having thread inclines comprising one or more recesses.

3 2. (Currently Amended) The helical implant as set forth in claim 1, wherein with
4 the recesses have having a polygonal cross-section opened at one side thereof.

1 3. (Currently Amended) A helical implant formed with threads thereon as set forth
2 in claim 1, wherein with each of the threads has having thread inclines comprising one or
3 more recesses and protrusions.

1 4. (Currently Amended) The helical implant as set forth in claim 3, wherein with
2 both the recesses and protrusions have having an arcuate cross section of identical
3 curvature and length.

1 5. (Currently Amended) The helical implant as set forth in claim 2, wherein in
2 which a distance between two adjacent said the recesses have a cross sectional area of is

3 150 μm .

1 6. (Currently Amended) The helical implant as set forth in claim 4, wherein in
2 which the distance between two adjacent ~~the recesses have a cross sectional area is~~ of 150
3 μm .

1 7. (New) A helical implant, comprising a core surrounded by helical threads, and
2 inclined flanks of said threads bearing continuous micro-patterns increasing exposed
3 surface area of said implant.

1 8. (New) The helical implant of claim 7, comprised of the micro-patterns having a
2 polygonal cross-section opened at one side thereof.

1 9. (New) A helical implant of claim 7, comprised of the micro-patterns
2 comprising one or more recesses and protrusions.

1 10. (New) The helical implant as set forth in claim 7, comprised of the micro-
2 patterns comprising one or more recesses and protrusions with both the recesses and
3 protrusions having an arcuate cross section of identical curvature and length.

1 11. (New) The helical implant as set forth in claim 7, comprised of the micro-

2 patterns comprising one or more recesses and protrusions with two adjacent recesses
3 being separated by a distance on an order of 150 µm.

1 12. (New) The helical implant of in claim 7, comprised of said micro-patterns
2 having cross-sectional areas on an order of 150 µm.

1 13. (New) A helical implant, comprising a core surrounded by helical threads
2 bearing inclined flanks incised with continuous micro-patterns increasing exposed
3 surface area of said implant by extending along said flanks and around said core.

1 14. (New) The helical implant as set forth in claim 13, comprised of the micro-
2 patterns having a polygonal cross-section opened at one side thereof.

1 15. (New) A helical implant of claim 13, comprised of the micro-patterns
2 comprising one or more recesses and protrusions.

1 16. (New) The helical implant as set forth in claim 13, comprised of the micro-
2 patterns comprising one or more recesses and protrusions with both the recesses and
3 protrusions having an arcuate cross section of identical curvature and length.

1 17. (New) The helical implant as set forth in claim 13, comprised of the micro-

2 patterns comprising one or more recesses and protrusions with two adjacent recesses
3 being separated by a distance on an order of 150 µm.

1 18. (New) The helical implant of in claim 13, comprised of said micro-patterns
2 having cross-sectional areas on an order of 150 µm.